

FIGURE 1A

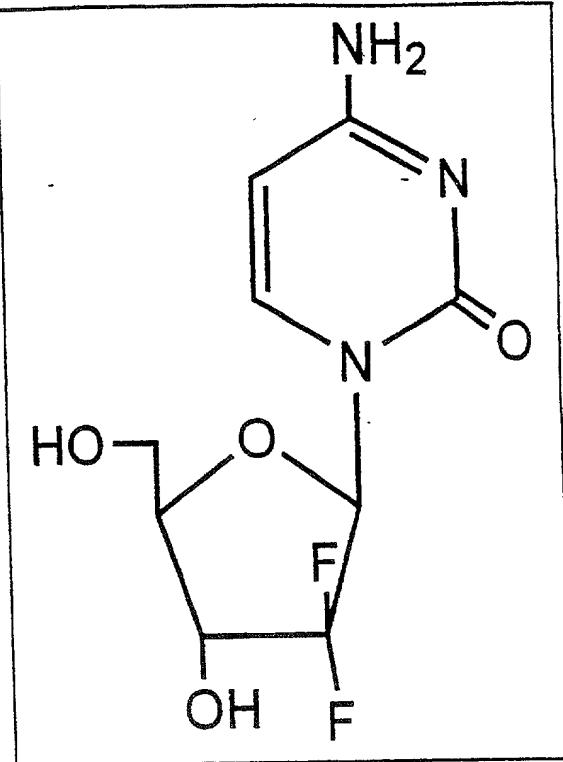


FIGURE 1B

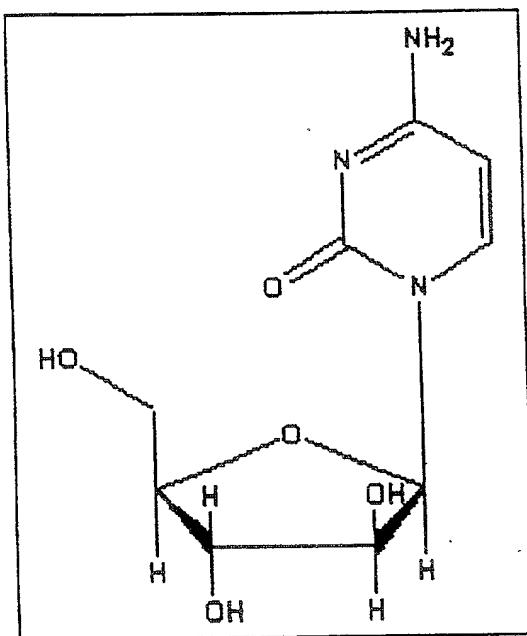


FIGURE 1C

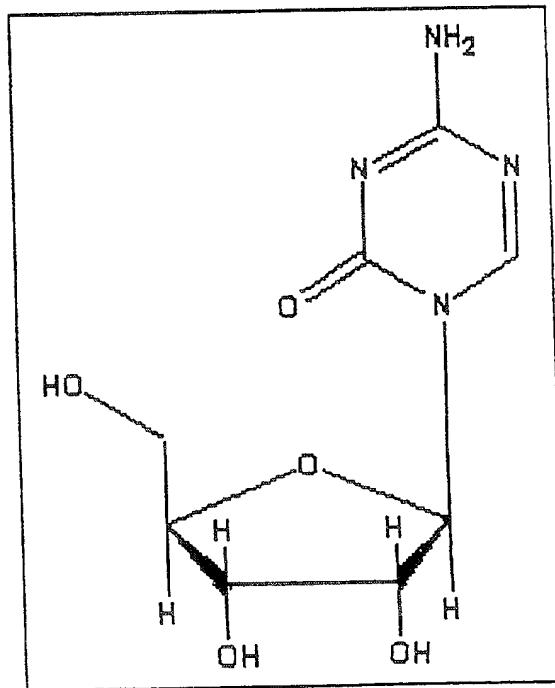


FIGURE 1D

## Synthesis of Lipid Backbone

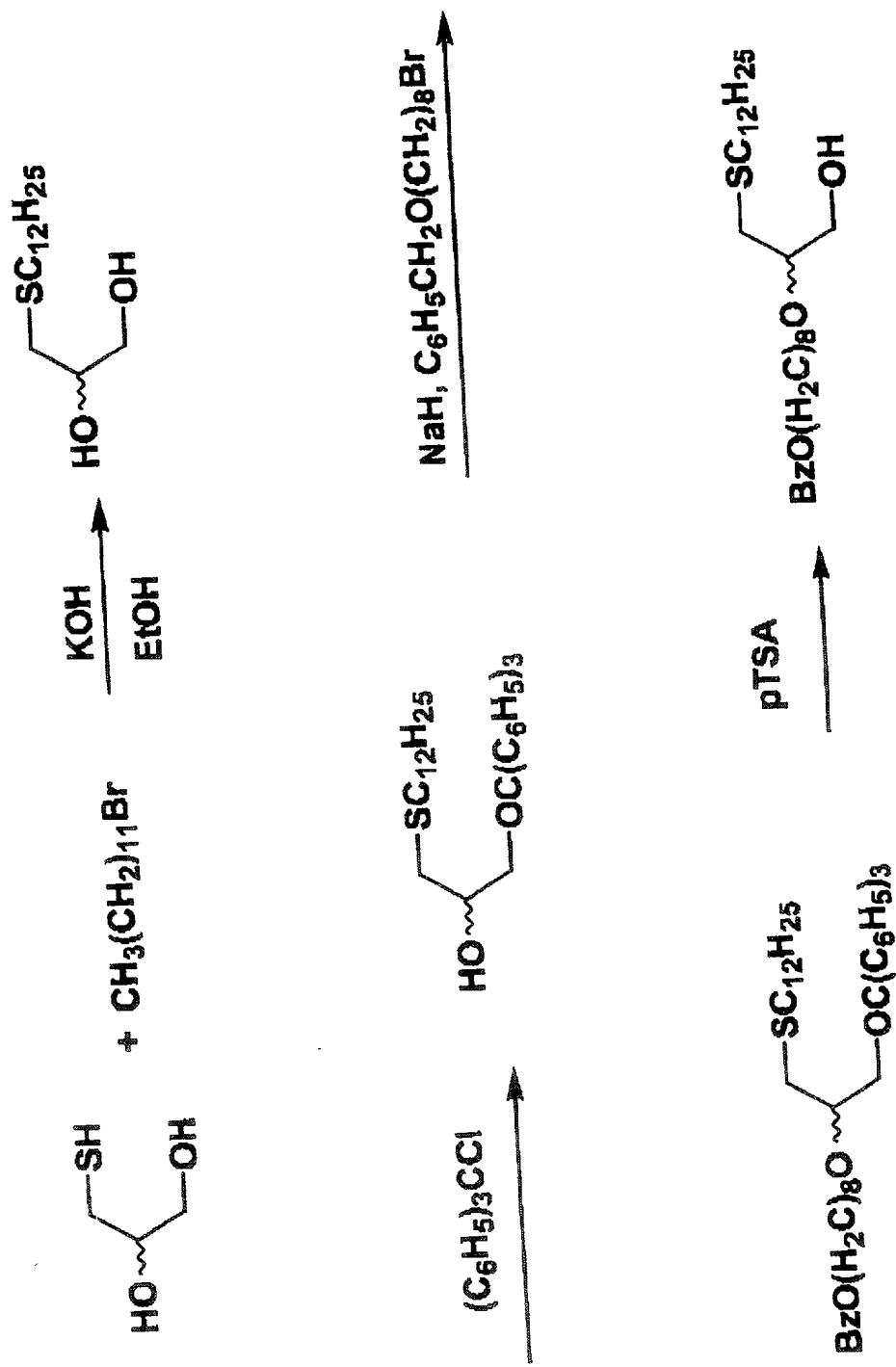
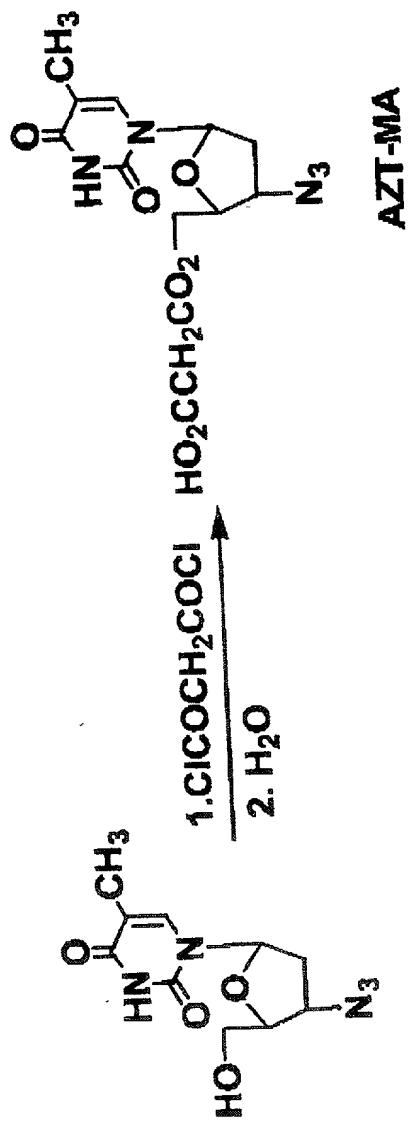


FIGURE 2

Synthesis of AZT-Malonic Acid (AZT-MA)



Substituted malonic acid chlorides (ClCOCHRCOCl) could also be used in the above reaction;  
R = CH3, CH2CH3, C6H5

FIGURE 3

### Synthesis of AZT-Phosphocholine Conjugate

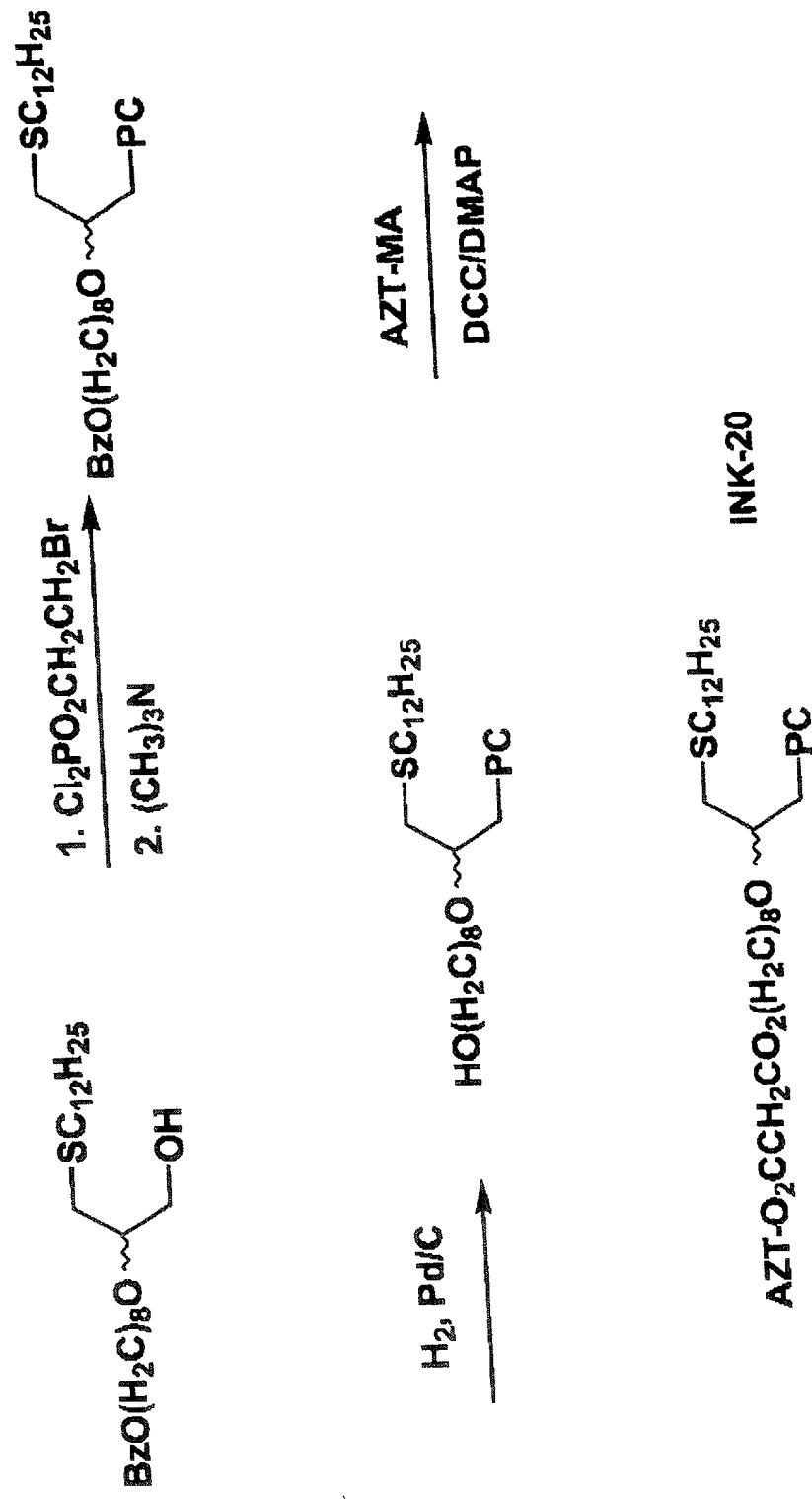


FIGURE 4

[<sup>14</sup>C]-BM 21.1290 concentrations in plasma and lymphoid tissues of female C57Bl/6 mice

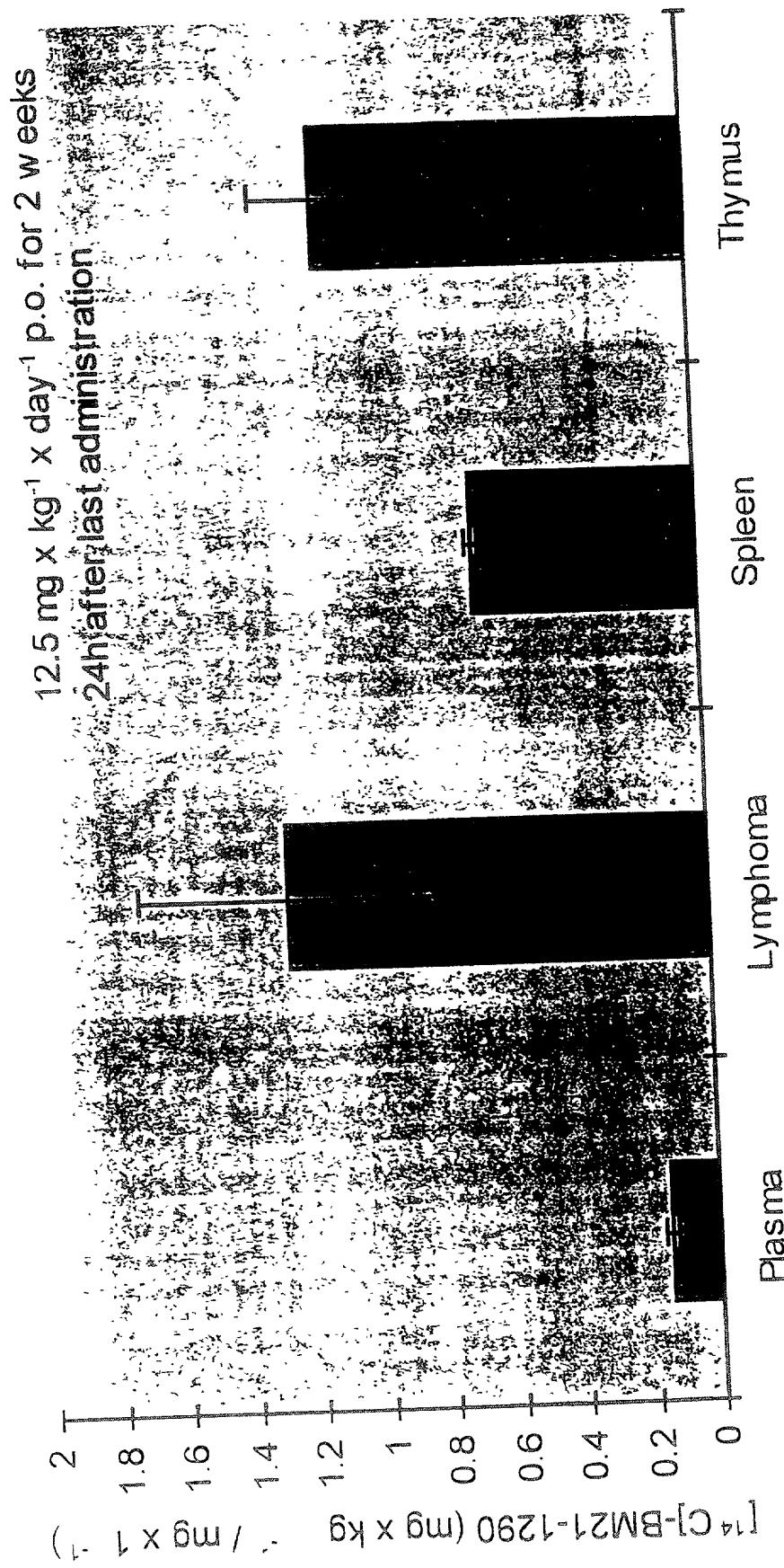


FIGURE 5

Plasma and CNS concentrations of [ $^{14}\text{C}$ ]-BM 21.1290 in  
female C57Bl/6 mice

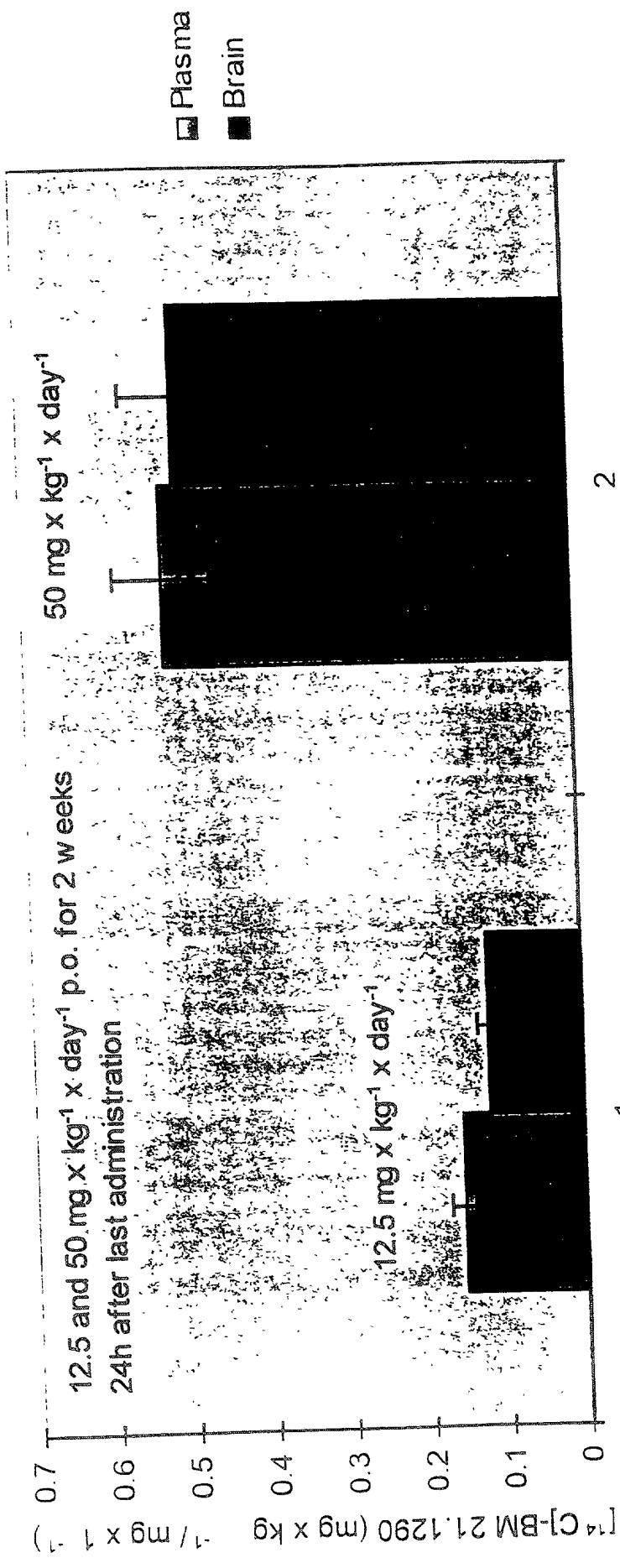


FIGURE 6

**lipid & ara-C coupled through phosphate ester**

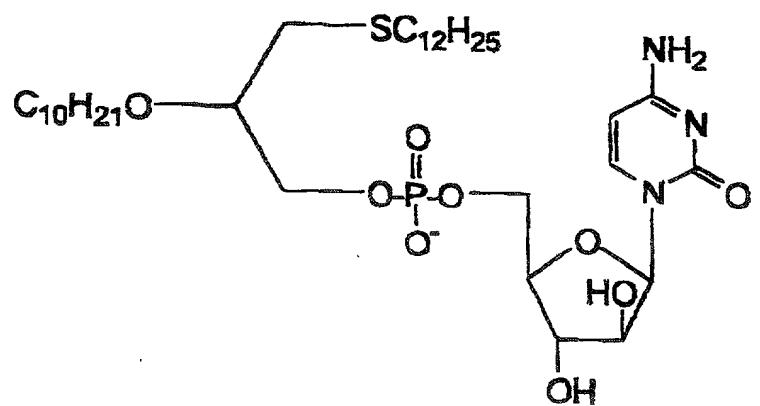


FIGURE 7A

**lipid & gemcitabine coupled through phosphate ester**

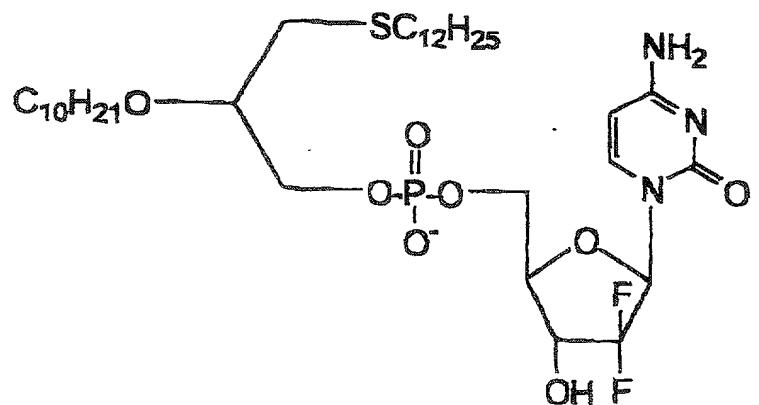


FIGURE 7B

lipid & ara-C coupled through phosphonate ester

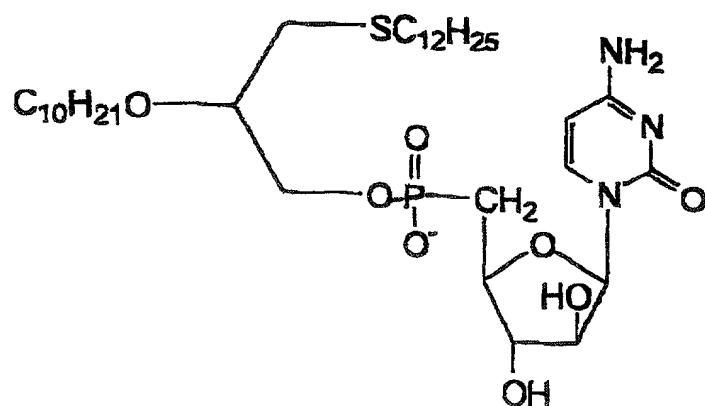


FIGURE 8A

lipid & gemcitabine coupled through phosphonate ester

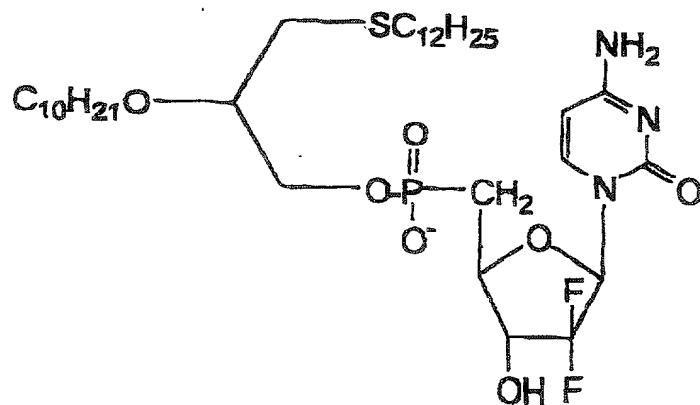


FIGURE 8B

lipid coupled to methotrexate through an ester

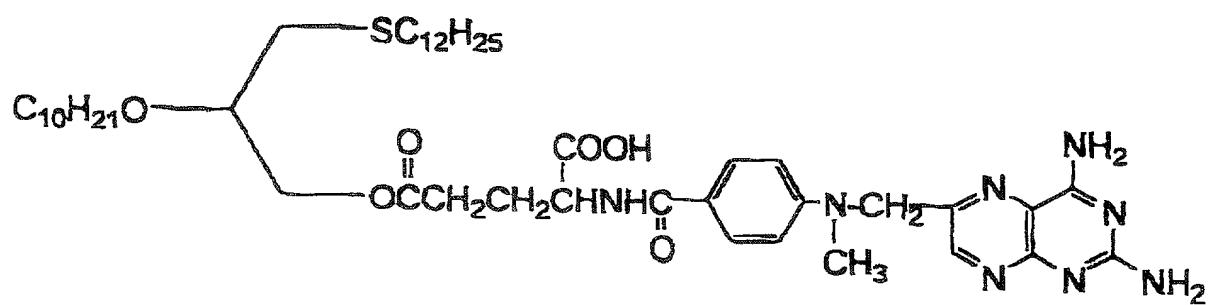


FIGURE 9